

IN THE CLAIMS:

Please amend claims 1, 4, 5, 20, 22, 24, 28, 29 and 30 and cancel claims 2, 3 and 23 as follows:

Claim 1 (Currently Amended): A system for remotely controlling devices, comprising:

a foot pedal unit having a moveable member;

a first microprocessor operatively associated with the foot pedal unit and an RF transmitter, the first microprocessor configured to determine whether at least a first device or a second device is selected, the first microprocessor further configured to induce the RF transmitter to transmit a first RF signal in response to at least partial displacement of the moveable member when the first device is selected, the first RF signal having a first identifier value, the first microprocessor further configured to induce the RF transmitter to transmit a second signal in response to at least partial displacement of the moveable member when the second device is selected, the second RF signal having a second identifier value; and

a first device actuation unit configured to receive the first RF signal, the first device actuation unit further configured to compare the first identifier value to a first predetermined value associated with the first device, the first device actuation unit further configured to actuate the first device when the first identifier value corresponds to the first predetermined value.

Claim 2 (Cancelled).

Claim 3 (Cancelled).

Claim 4 (Currently Amended): The system of claim 1 ~~3~~ wherein the first device actuation unit includes a second microprocessor and an RF receiver operably coupled to the second microprocessor.

Claim 5 (Currently Amended): The system of claim 1 ~~3~~ further comprising a second device actuation unit configured to receive the second RF signal, the second device actuation unit further configured to compare the second identifier value to a second predetermined value associated with the second device, the second device actuation unit further configured to actuate the second device when the second identifier value corresponds to the second predetermined value ~~and to actuate the second device based on the second RF signal.~~

Claim 6 (Cancelled).

Claim 7 (Previously Presented): The system of claim 1 further comprising an electrical switch operatively coupled to the moveable member and to the first microprocessor, wherein at least partial displacement of the moveable member actuates the electrical switch, the first microprocessor configured to induce the transmitter to transmit the first signal in response to actuation of the switch.

Claim 8 (Previously Presented): The system of claim 1 further comprising a pneumatic valve coupled to a conduit, the valve further operatively coupled to the moveable member, the system further including a pneumatic switch operatively coupled to the first microprocessor and to the conduit, wherein at least partial displacement of the moveable member actuates the pneumatic valve increasing a pressure in the conduit, when the pressure is greater than a predetermined pressure the pneumatic switch is actuated inducing the first microprocessor to induce the RF transmitter to transmit the first RF signal.

Claim 9 (Previously Presented): The system of claim 1 further comprising a pneumatic valve operatively coupled to a conduit, the valve being further operatively coupled to the movable member, the valve opening in response to at least partial displacement of the moveable member, the system further including a pressure sensor coupled to the conduit generating a pressure signal indicative of the pressure in the conduit that is transmitted to the first microprocessor.

Claim 10 (Original): The system of claim 9 wherein the first microprocessor is configured to induce the RF transmitter to generate the first RF signal when the pressure signal indicates the pressure is greater than a predetermined pressure.

Claim 11 (Original): The system of claim 9 wherein the first microprocessor is configured to induce the RF transmitter to generate the first RF signal containing a command value determined from the pressure signal.

Claim 12 (Presently Presented): The system of claim 1 further comprising a position sensor operatively coupled to the movable member of the foot pedal unit, the position sensor generating a third signal indicative of a position of the moveable member that is received by the first microprocessor, the first microprocessor configured to induce the RF transmitter to generate the first RF signal containing a command value determined from the position signal.

Claim 13 (Original): The system of claim 12 wherein the position signal is indicative of an angular position of the movable member.

Claim 14 (Original): The system of claim 12 wherein the position signal is indicative of a linear position of the movable member.

Claim 15 (Original): The system of claim 1 wherein the first device comprises a dental implement.

Claim 16 (Original): The system of claim 1 wherein the first device comprises a medical implement.

Claim 17 (Original): The system of claim 1 wherein the first device comprises one of a drill, a microprocessor position-controllable dental chair, an infrared photo-optic imaging camera, a dental irrigator, an intra-oral camera, a video capture circuit, a laser, an air-abrasion unit, an electro-surgery unit, an ultrasonic teeth cleaning unit, a piezo-ultrasonic unit, an air polishing

prophylaxis device, a gum depth measurement probe, a surgical microscope with controllable focusing adjustment, a microprocessor controlled anesthetic delivery system, and an endodontic heat source device.

Claim 18 (Original): The system of claim 1 wherein the first device comprises a video capture board, the system further comprising a first device actuation unit operatively coupled to the video capture board, the first device actuation unit configured to receive the first RF signal and to induce the video capture board to store a video image in a memory in response to the first RF signal.

Claim 19 (Cancelled).

Claim 20 (Currently Amended): The system of claim 1 further comprising:
a second microprocessor operatively coupled to an RF receiver, and
an RF transmitter unit configured to transmit a third RF signal having the a first ~~identifier~~ predetermined value associated with the first device for selecting the first device, the second microprocessor being further configured to store the first ~~identifier~~ predetermined value in a memory when the third RF signal is received by the RF receiver.

Claim 21 (Cancelled).

Claim 22 (Currently Amended): A method for remotely controlling devices, comprising:
determining when a first device is selected, utilizing a microprocessor;
inducing an RF transmitter to transmit a first RF signal having a first identifier value in response to at least partial displacement of a moveable member on a foot pedal unit when the first device is selected, utilizing the microprocessor;
determining when a second device is selected, utilizing the microprocessor;
inducing the RF transmitter to transmit a second RF signal having a second identifier value in response to at least partial displacement of the moveable member on the foot pedal unit when the second device is selected, utilizing the microprocessor; ~~and~~,
receiving the first RF signal at a device actuation unit;
comparing the first identifier value to a first predetermined value associated with the first device; and
controlling the first device utilizing the device actuation unit based on the first RF signal when the first identifier value corresponds to the first predetermined value associated with the first device.

Claim 23 (Cancelled).

Claim 24 (Currently Amended): The method of claim 22 further comprising controlling the second device utilizing the device actuation unit based on the second RF signal when the second identifier value corresponds to a second predetermined value associated with the second device.

Claim 25 (Original): The method of claim 22 wherein the first device comprises a dental implement or a medical implement.

Claim 26 (Original): The method of claim 22 wherein the first device comprises one of a drill, a microprocessor position-controllable dental chair, an infrared photo-optic imaging camera, a dental irrigator, an intra-oral camera, a video capture circuit, a laser, an air-abrasion unit, an electro-surgery unit, an ultrasonic teeth cleaning unit, a piezo-ultrasonic unit, an air

polishing prophylaxis device, a gum depth measurement probe, a surgical microscope with controllable focusing adjustment, a microprocessor controlled anesthetic delivery system, and an endodontic heat source device.

Claim 27 (Original): The method of claim 22 wherein the controlling step includes inducing a video capture board to store a video image in a memory in response to the first signal.

Claim 28 (Currently Amended): The system of claim 13 wherein the first microprocessor is further configured to induce the RF transmitter to transmit a third RF signal having the first identifier value in response to at least partial displacement of the moveable member when the first device is selected.

Claim 29 (Currently Amended): The system of claim 28 wherein the first device actuation unit is further configured to receive the third RF signal and to maintain activation of the first device during a first time period from at least receipt of the first RF signal to receipt of the third RF signal, if the first time period is less than or equal to a threshold time period.

Claim 30 (Currently Amended): The method of claim 22 further comprising:

inducing the RF transmitter to transmit a third RF signal having the first identifier value in response to at least partial displacement of the moveable member when the first device is selected; and

receiving the third RF signal at a the device actuation unit and maintaining activation of the first device during a first time period from at least receipt of the first RF signal to receipt of the third RF signal, if the first time period is less than or equal to a threshold time period.